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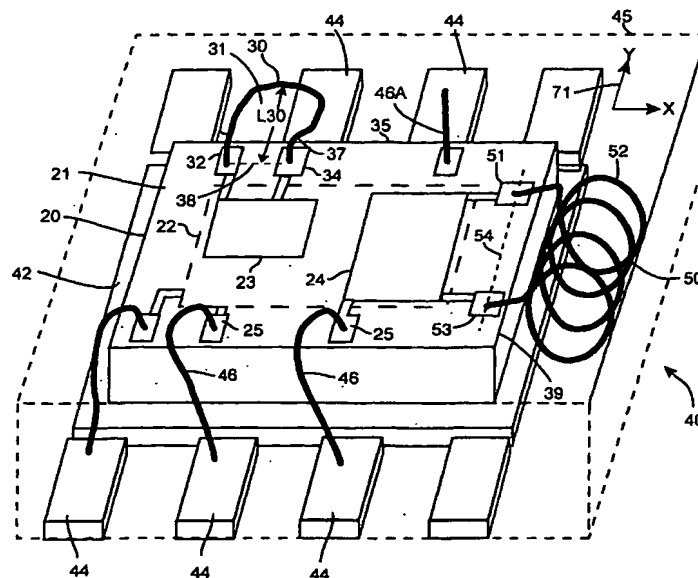
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[Continued on next page]

(54) Title: SEMICONDUCTOR DEVICE WITH WIRE BOND INDUCTOR AND METHOD



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(57) Abstract: A semiconductor device (10) includes a semiconductor die (20) and an inductor (30, 50) formed with a bonding wire (80) attached to a top surface (21) of the semiconductor die. The bonding wire is extended laterally a distance (L30, L50) greater than its height (H30, H50) to define an insulating core (31, 57). In one embodiment, the inductor is extended beyond an edge (35, 39) of the semiconductor die to reduce loading.

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- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

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A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 H01L23/522

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

PAJ, WPI Data, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 1999, no. 01, 29 January 1999 (1999-01-29) -& JP 10 289921 A (MATSUSHITA ELECTRIC IND CO LTD), 27 October 1998 (1998-10-27)	1,2,4-7, 9-14,17, 19
Y	the whole document	3,15
X	PATENT ABSTRACTS OF JAPAN vol. 0184, no. 42 (E-1593), 17 August 1994 (1994-08-17) -& JP 06 140451 A (HITACHI LTD; OTHERS: 01), 20 May 1994 (1994-05-20)	1,4-8, 12,13, 16-18
Y	the whole document	3,15
X	EP 1 202 296 A (XEROX CORP) 2 May 2002 (2002-05-02) the whole document	1,2,4,7, 17,19
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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